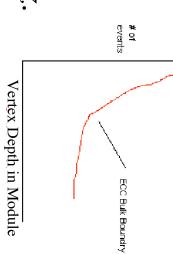
## Mean energy of tracks produced in events with backscattered tracks.

- Will use range to determine mean energy of these tracks
- Plot number of events with observed backtrack in SFT versus vertex location
- Events with vertices deeper (relative to the upstream side) in the emulsion should have more backtracks ranged out.

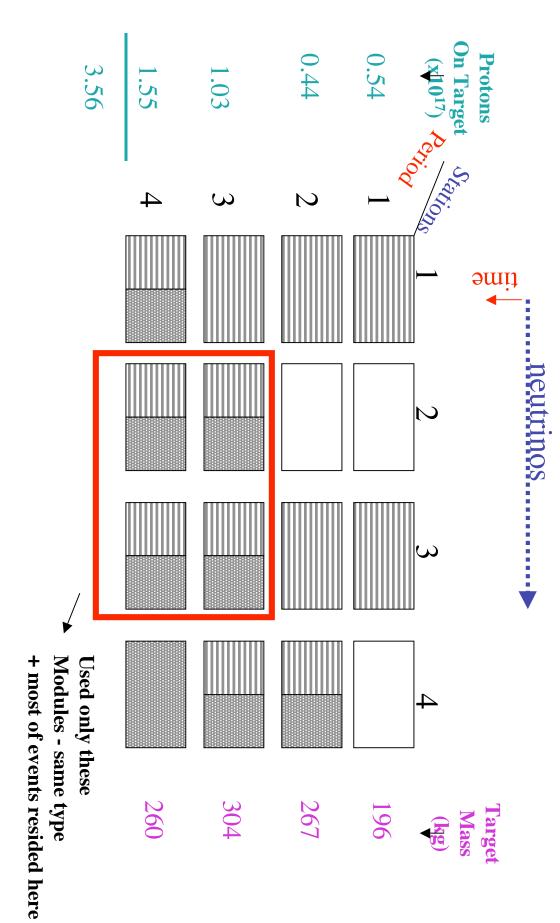
## •Problems:

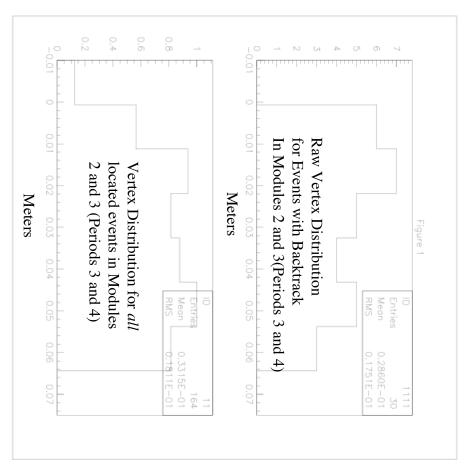
the following shape: ECC/bulk type therefore one expects the distribution to have 1<sup>st</sup>: Most modules(i.e. those with most events) are of the

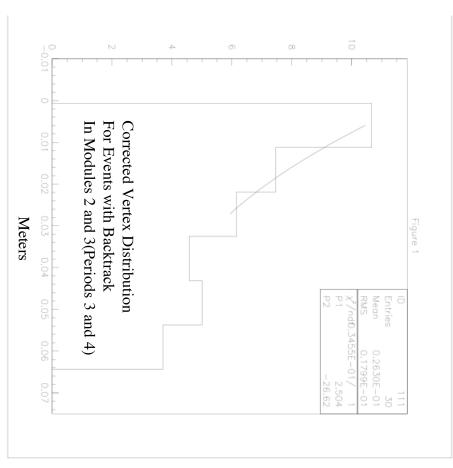
 $2^{nd}$ : The location efficiency is not flat in z.



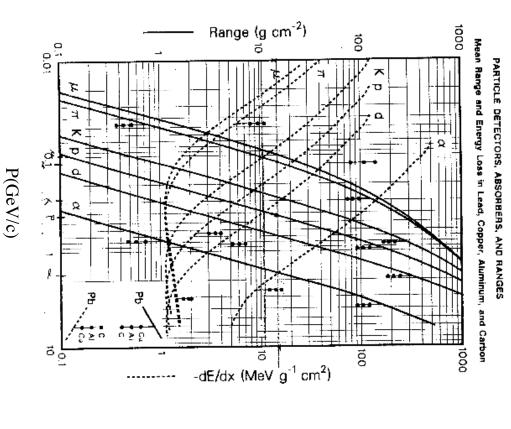
## Target Configurations







Result of fit for upstream half of module: $N(x) = N_0 e^{(-x/3.75cm)}$ 



Some of our inefficiency could be related to scanning rejection of primary vertices?

Range defined as the amount of material needed(in thickness) to reduce the initial flux by a factor of 2.

Upstream portion of these modules is ECC: ~half iron

Therefore the mean range for the particles produced in backscatter is ~1.3 cm of iron (or ~10.2 g/cm<sup>2</sup>)

If proton: <P> ~ 400 MeV/c If pion: <P> ~130 MeV/c

If located in emulsion can tell by dE/dx - i.e. grain density